

ELASTOSIL[®] M 4140 US A/B



Room Temperature Curing Silicone Rubber (RTV-2)

Pourable, addition-curing, 1:1 two-component silicone rubber that vulcanizes at room temperature.

Properties

- Good flow
- Non-shrink cure at room temperature which can be accelerated considerably by the application of heat
- Medium hardness (ca. Shore A 40)
- High tear resistance
- Excellent resistance to common resins
- Excellent long-term stability of mechanical properties
- Good transparency of cured rubber

Technical data

Properties Uncured

Property	Condition	A	B	Method
Color	-	Translucent	Transparent	-
Viscosity, dynamic	23.0 °C	100000.0 mPa·s	100000.0 mPa·s	Brookfield
Specific gravity	23 °C	1.07 g/cm ³	1.07 g/cm ³	-

These figures are only intended as a guide and should not be used in preparing specifications.

Catalyzed

Property	Condition	Value	Method
Color	-	Transparent	-
Viscosity, dynamic mixed	23.0 °C	100000.0 cP	-
Platinum catalyst in component	-	A	-
Mix ratio	-	1 : 1 pbw	-

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Properties Cured

After 24 hours at 23 °C

Property	Condition	Value	Method
Hardness Shore A	-	40	ASTM D 2240
Tensile strength	-	860	ASTM D 412
Elongation at break	-	400 %	ASTM D 412
Linear shrinkage	-	< 0.1 %	-
Tear strength	-	> 130 lb/in	ASTM D 624 B

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

ELASTOSIL® M 4140 US A/B is designed for vacuum casting for rapid prototyping especially suitable if crystal clear resins are used. ELASTOSIL® M 4140 US A/B has excellent resistance to casting resins. It is perfectly suitable for molds with slight undercuts and an essential need to retain a ridge mold.

Processing

Component A contains the platinum catalyst and Component B the crosslinker. The Additions systems are sold as matched sets. A and B lot numbers should match.

Pot Life

Processing Temperature	
-15 °C (5 °F)	>2 days
5 °C (41 °)	6 hours
15 °C (59 °F)	2 hour
23 °C (73.4 °F)	30 minutes
30 °C (86 °F)	20 minutes

Curing Times

Curing Temperature	
23 °C (73.4 °F)	12 hours
35 °C (95 °F)	3 hours
70 °C (158 °F)	1 hour
100 °C (212 °F)	30 minutes
150 °C (302 °F)	10 minutes

Packaging and storage

Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet.

QR Code ELASTOSIL® M 4140 US A/B



For technical, quality or product safety questions, please contact:

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